

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions or listings of claims for this application:

Listing of Claims:

Claims 1-6 (Canceled).

7. (New) A charged particle beam irradiation apparatus for irradiating charged particle beam to an irradiation target comprising:

a bed for supporting said irradiation target;

a beam transport device for transporting said charged particle beam;

an irradiation field forming device for forming an irradiation field for said charged particle beam transported by said beam transport device; and

a rotating body provided with said beam transport device and said irradiation field forming device, said rotating body being rotatable about an axis of rotation,

said irradiation field forming device being eccentrically arranged to the axis of rotation such that an axis of irradiation thereof passes a position different from the axis of rotation,

said bed being arranged on an opposite side of said beam transport device with respect to a plan which contains the axis of rotation and is substantially perpendicular to the axis of irradiation.

8. (New) A charged particle beam irradiation apparatus according to claim 7, wherein said bed is rotatably suspended from and supported by said irradiation field forming device.

9. (New) A charged particle beam irradiation apparatus according to claim 8, further comprising a heavy object provided on said bed to maintain said bed substantially horizontal.

10. (New) A charged particle beam irradiation apparatus according to claim 8, further comprising a bed driving device for driving said bed, which is rotatably suspended from and supported, to change its inclination, an inclination detecting device for detecting the inclination of said bed, and an inclination controlling device for controlling said bed driving device based on the results of said inclination detecting device.

11. (New) A charged particle beam irradiation apparatus according to claim 7, further comprising a rotating shaft member fixed to said rotating body and having a central axis which constitutes the axis of rotation, and a support device for rotatably supporting said rotating shaft member.

12. (New) A charged particle beam irradiation apparatus according to claim 11, further comprising a rotating drive device for rotating said rotating shaft member, a position of rotation detecting device for detecting a position of rotation of said rotating shaft member, and a rotation controlling device for controlling said rotating drive device based on the position of rotation detected by said position of rotation detecting device.